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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,856 08/06/2003		Satoshi Hirosawa	066409-224	9153
7	7590 12/03/2004	\	EXAMINER	
DYKEMA GOSSETT PLLC Franklin Square, Third Floor West 1300 I Street, N.W.			WYSZOMIERSKI, GEORGE P	
			ART UNIT	PAPER NUMBER
Washington, DC 20005-3353			1742	
			DATE MAILED: 12/03/2004	DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/634,856	HIROSAWA ET AL.				
omee notion dummary	Examiner	Art Unit				
The MAILING DATE of this communication and	George P Wyszomierski	1742				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron . cause the application to become ABANDON	mely filed ys will be considered timely. the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 2003	0806 (Continuation, Prelim, Amd	(t.)				
3) Since this application is in condition for allowar		osecution as to the ments is				
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1-5 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	r Sec 1000 Z.					
10) The drawing(s) filed on is/are: a) acce		Evaminer				
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
<u> </u>						
12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of:	phonty under 35 U.S.C. § 119(a))-(d) or (f).				
3. Copies of the certified copies of the priori						
application from the International Bureau		ou in this National Stage				
* See the attached detailed Office action for a list of		ed				
uttachment(s)						
) ⊠ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				
	-, <u> </u>					

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1.

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The specification is objected to as containing a number of minor departures from

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standard idiomatic English grammar and spelling. Examples of such errors include, e.g.

the term "miniaturi-zation" at page 1, line 15. Correction of all such errors is required.

2. Claims 1-5 are objected to because:

a) In line 3 of each claim, "MGPe" should be changed to --MGOe--, the standard

abbreviation for Mega-Gauss Oersteds.

b) In claim 1, line 5, "MN" should be changed to --Mn-- and "NI" to --Ni--, the standard

abbreviations for manganese and nickel, respectively.

c) The claims contain a number of improper Markush groups; the phrase "selected from

the group consisting of" should introduce all such groups. Also, it is unclear from the wording of

the claims what elements (if any) are required and which are optional elements in some of these

groups, e.g. the group consisting of Al, Si, Cu, Cr, Mn, and Ni.

d) Claim 4 does not define any amount of element "A" present.

e) The claims recite a number of components in an amount "less than" a certain

percentage, for example, "less than 10% Co". While not indefinite per se, the examiner notes

that compositions containing 0% of the recited components may fully meet the limitations of the

instant claims.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1, 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimura et al. (U.S. Patent 4,773,950).

Table 3 of Fujimura et al. discloses examples of magnetically anisotropic sintered magnets containing iron, boron, a rare earth element, and one or more of the "A" elements as defined in the instant claims. A number of these examples have iHc and BH_{max} values within the ranges as defined in the instant claims. Additionally, column 4 of Fujimura indicates that many of the optional elements recited in instant claim 2 may be present in such magnets. While no specific example of the prior art contains all of the elements as presently recited, the overlap in composition between the present claims and the Fujimura disclosure creates a prima facie case of obviousness of the presently claimed invention; compare *In re Malagari* (182 USPQ 549). One of ordinary skill in the art would have arrived at the contents of the claimed magnets by optimizing the amounts of the elements as disclosed by Fujimura et al., because Fujimura discloses the utility of compositions over the entire range disclosed therein.

5. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimura et al., as above, in view of either Matsuura et al. (U.S. Patent 4,597,938) or Sagawa et al. (U.S. Patent 4,792,368).

The Fujimura magnets, discussed supra, do not contain cobalt. However,

- a) As noted in item 2(e) supra, the instant claims recite "less than" a certain percentage of cobalt, and therefore do not require cobalt to be present in the claimed products.
- b) Both Matsuura and Sagawa disclose sintered magnets similar to those of Fujimura, and which also contain cobalt. According to Matsuura column 2, the cobalt raises the Curie temperature of the magnet, and according to Sagawa column 8, the cobalt gives the magnets

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"better resistance against temperature dependency". These are the same features as desired by Applicant, as indicated at page 8, lines 12-14 of the present specification. The teachings of Matsuura et al. or Sagawa et al. would have motivated one of ordinary skill in the art, desirous of such properties, to incorporate cobalt into the magnets disclosed by Fujimura et al.

6. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimura et al. (U.S. patent 4,859,255) or Tokunaga et al. (U.S. Patent 5,041,172).

Fujimura et al. '255 and Tokunaga et al. disclose sintered magnets containing iron, boron, a rare earth element, cobalt, one or more of the "A" elements of the instant claims, and one or more of the optional elements of instant claim 5. The highest iHc and BH_{max} values in the prior art appear to occur when the amount of cobalt is within the presently claimed range (see Tables 1-3 of Fujimura '255 or Tables 2 and 3 of Tokunaga), and numerous compositions set forth in those Tables have values for these properties within the presently claimed ranges. While no specific example of the prior art contains all of the elements as presently recited, the overlap in composition between the present claims and the disclosures of Fujimura et al. or Tokunaga et al. creates a prima facie case of obviousness of the presently claimed invention; compare *In re Malagari* (182 USPQ 549). One of ordinary skill in the art would have arrived at the contents of the presently claimed magnets by optimizing the amounts of the elements as disclosed by Fujimura et al. or Tokunaga et al., because the prior art references disclose the utility of magnet compositions over the entire range disclosed therein.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. Effective October 1, 2003, all patent application related correspondence transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GEORGE WYSZOMIERSKI PRIMARY EXAMINER

GPW December 2, 2004